

**IN THE CLAIMS:**

Please cancel Claims 1 to 35, 39, 40, 42 and 43.

Please amend Claim 36.

1. (Cancelled). A non-contact extrusion nozzle head for applying sealant material to a U-shaped receiving channel defined by two panes of glass and a spacer frame for forming an insulated glass assembly, comprising:

a) a nozzle head housing having a nozzle inlet channel extending into said nozzle head housing;

b) said nozzle head housing having a nozzle extension member mounted thereon;

c) said nozzle extension member having a nozzle outlet channel formed therein being connected to said nozzle inlet channel for receiving sealant material from said nozzle inlet channel;

d) an interior chamber formed in said nozzle extension member having a nozzle outlet opening, said interior chamber being connected to said nozzle outlet channel for receiving sealant material therefrom; and

e) said nozzle outlet opening for supplying sealant material to fill the space defined by the U-shaped receiving channel between the two panes of glass and the spacer frame.

2. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 1,

wherein said nozzle head housing includes a first section connected to a second section.

3. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 2, wherein said first section is cylindrical in shape.

4. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 2, wherein said second section is cylindrical in shape.

5. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 4, wherein said second section has a smaller diameter than said first section.

6. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 1, wherein said nozzle head housing further includes means for mounting said nozzle head housing on a holding plate.

7. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 6, ~~wherein means for mounting includes a mounting opening for receiving a machine bolt or~~ machine screw therein.

8. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 6,

wherein said nozzle head housing further includes a pair of locating pins being 180° degrees opposed from each other for being received within locating pin openings of said holding plate.

9. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 8, wherein said pair of locating pins align said nozzle head housing in a pre-determined position such that said nozzle outlet opening extends inwardly into said U-shaped receiving channel for extruding the sealant material therein.

10. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 1, wherein said nozzle inlet channel is cylindrical in shape.

11. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 1, wherein said nozzle outlet channel is cylindrical in shape.

12. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 1, wherein said nozzle outlet opening is substantially rectangular in shape.

13. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 1, wherein said nozzle outlet channel is perpendicular to said nozzle inlet channel.

14. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 1, wherein said nozzle outlet channel is in line with said nozzle inlet channel.

15. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 1, wherein said interior chamber is perpendicular to said nozzle outlet channel.

16. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 1, wherein said nozzle outlet channel is connected to an intermediate section of said interior chamber thereby forming a recess at one end of said interior chamber remote from said opening at the other end of said interior chamber, said recess for receiving and storing the sealant material before it is extruded from said nozzle head.

17. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 1, wherein said nozzle extension member includes front and rear tapered walls.

18. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 1, wherein said nozzle head housing is made from durable plastic compositions, metals or metal alloys.

19. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 18,

wherein said durable plastic compositions are selected from the group consisting of nylon, nylatron G, nylon 6/6 with PTFE and silicone, polyethylene, polypropylene, polystyrene, polyurethane, polyamides, Teflon, Hydrex, acetal, acetal with polytetrafluorethylene (PTFE) and silicone; polyester elastomer with PTFE and silicone; polyvinyl butyryl modified phenolic resin matrix composites with the use of E-glass and/or Kevlar-49™ reinforcing fabric materials contained therein; and equivalents thereof.

20. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 18, wherein said durable metal or metal alloys are selected from the group consisting of brass, stainless steels, steel aluminum, nickel, titanium, tungsten and equivalents thereof.

21. (Cancelled). A non-contact extrusion nozzle head for applying sealant material to a U-shaped receiving channel defined by two panes of glass a spacer frame for forming an insulated glass assembly, comprising:

a) a nozzle head housing having a first section and a second section, a nozzle inlet changing extending into the first and second sections of said nozzle head housing;

b) said nozzle head housing having a nozzle extension member mounted on the exterior of said second section;

c) said nozzle extension member having a nozzle outlet channel formed therein being connected to said nozzle inlet channel for receiving sealant material from said nozzle inlet channel;

d) an interior chamber formed in said nozzle extension member having a nozzle opening, said interior chamber being connected to said nozzle outlet channel for receiving sealant material therefrom; and

e) said nozzle outlet opening for supplying sealant material to fill the space defined by the U-shaped receiving channel between the two panes of glass and the spacer frame.

22. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 21, wherein said first section is cylindrical in shape.

23. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 21, wherein said second section is cylindrical in shape.

24. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 23, wherein said second section has a smaller diameter than said first section.

25. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 21, wherein said nozzle head housing further includes means for mounting said nozzle head housing on a holding plate.

26. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 25, wherein means for mounting includes a mounting opening for receiving a machine bolt or machine screw therein.

27. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 25, wherein said nozzle head housing member further includes a pair of locating pins being 180° degrees opposed from each other for being received within locating pin openings of said holding plate.

28. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 27, wherein said pair of locating pins align said nozzle head housing in a pre-determined position such that said nozzle outlet opening extends inwardly into said U-shaped receiving channel for extruding the sealant material therein.

29. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 21, wherein said nozzle inlet channel is cylindrical in shape.

30. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 21, wherein said nozzle outlet channel is cylindrical in shape.

31. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 21, wherein said nozzle outlet opening is substantially rectangular in shape.

32. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 21, wherein said nozzle outlet channel is perpendicular to said nozzle inlet channel.

33. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 21, wherein said interior chamber is perpendicular to said nozzle outlet channel.

34. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 21, wherein said nozzle outlet channel is connected to an intermediate section of said interior chamber thereby forming a recess at one end of said interior chamber remote from said opening at the end of said interior chamber, said recess for receiving and storing the sealant material before it is extruded from said nozzle head.

35. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 21, wherein said nozzle head housing is made from durable plastic compositions, metals or metal alloys.

36. (Currently Amended). A method of employing an extrusion nozzle head for extruding sealant material from within a nozzle inlet channel to a recessed space at one end of an interior chamber of a nozzle outlet channel for extruding sealant material from a nozzle outlet opening to a U-shaped receiving channel of an insulated glass assembly, said U-shaped receiving channel being defined by two panes of glass and a spacer frame, comprising the steps of:

a) aligning the extrusion nozzle head within the U-shaped receiving channel to be spaced from the two panes of glass and the spacer frame in a non-contact manner;

b) extruding the sealant material from the nozzle inlet channel to the recessed



space at one end of the interior chamber of the nozzle outlet channel to the nozzle outlet opening of the extrusion nozzle head by pressure applying means;

c) controlling the pressure of said pressure-applying means for filling the U-shaped receiving channel with the extruded sealant material along the perimeter of the insulated glass assembly; and

d) moving said extrusion nozzle head along all sides of the insulated glass assembly.

37. (Original). A method in accordance with Claim 36, wherein the step of controlling the pressure of the sealant material further includes the step of applying the sealant material to provide a smooth finished surface of sealant material within the U-shaped receiving channel.

38. (Original). A method of employing first and second extrusion nozzle heads for applying sealant material within a U-shaped receiving channel of the first, second, third and fourth sides of an insulated glass assembly, said U-shaped receiving channel being defined by two panes of glass and a spacer frame, comprising the steps of:

a) moving said first extrusion nozzle head along the first side of said insulated glass assembly to apply said sealant material thereto;

b) simultaneously moving said first and second extrusion nozzle heads along the second and fourth sides of said insulated glass assembly to simultaneously apply said sealant material thereto; said second and fourth sides being opposite to each other; and

c) moving said first extrusion nozzle head along the third side of said insulated

glass assembly to apply said sealant material thereto.

39. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 16, wherein said nozzle head includes means for moving the sealant material from the bottom of said interior chamber, through said interior chamber, to the top of said interior chamber.

40. (Cancelled). A non-contact extrusion nozzle head in accordance with Claim 34, wherein said nozzle head includes means for moving the sealant material from the bottom of said interior chamber, through said interior chamber, to the top of said interior chamber.

41. (Original). A method in accordance with Claim 36, wherein the step of extruding the sealant material from the nozzle head includes the step of moving the sealant material from the bottom of the interior chamber, through said interior chamber, to the top of interior chamber.

42. (Cancelled). A non-contact extrusion nozzle head for applying sealant material to a U-shaped receiving channel defined by two panes of glass and a spacer frame for forming an insulated glass assembly, comprising:

- a) a nozzle head housing having a nozzle inlet channel extending into said nozzle head housing;
- b) said nozzle head housing having a nozzle extension member mounted thereon;
- c) said nozzle extension member having a nozzle outlet channel formed therein

being connected to said nozzle inlet channel for receiving sealant material from said nozzle inlet channel;

d) an interior chamber formed in said nozzle extension member and having a nozzle outlet opening, said interior chamber being connected to said nozzle outlet channel for receiving sealant material therefrom;

e) said interior chamber is perpendicular to said nozzle outlet channel; and

f) said nozzle outlet opening for supplying sealant material to fill the space defined by the U-shaped receiving channel between the two panes of glass and the spacer frame.

43. (Cancelled). A non-contact extrusion nozzle head for applying sealant material to a U-shaped receiving channel defined by two panes of glass and a spacer frame for forming an insulated glass assembly, comprising:

a) a nozzle head housing having a first section and a second section, a nozzle inlet channel extending into the first and second sections of said nozzle head housing;

b) said nozzle head housing having a nozzle extension member mounted on the exterior of said second section;

c) said nozzle extension member having a nozzle outlet channel formed therein being connected to said nozzle inlet channel for receiving sealant material from said nozzle inlet channel;

d) an interior chamber formed in said nozzle extension member and having a nozzle outlet opening, said interior chamber being connected to said nozzle outlet channel for receiving sealant material therefrom;

e) said interior chamber is perpendicular to said nozzle outlet channel; and

f) said nozzle outlet opening for supplying sealant material to fill the space defined by the U-shaped receiving channel between the two panes of glass and the spacer frame.